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The schematic diagram illustrates a power supply system for a digital computer. It begins with a transformer (1) connected to a three-phase AC source (3). The secondary of the transformer is connected to a bridge rectifier (2). The rectifier output is filtered by a capacitor (4) and then passes through a series of components labeled 5a, 5b, 5c, and 5d. This is followed by a multi-stage switching regulator (6) consisting of a series of transistors (S₁₁, S₁₂, S₁₃, ..., S_{1n}, S₂) and a feedback network (B₁, B₂, ..., B_n). The output of the switching regulator is connected to a final filter stage (7) which includes a capacitor (7a) and a diode (7c). The final output is labeled "OUTPUT". A feedback control loop (8, 9, 10, 11) is shown, which monitors the output and provides feedback to the switching regulator stages.

(57) Abstract: A power management system for supplying power to an output circuit comprising a plurality of rechargeable batteries, a conversion means for converting a supply voltage to a battery voltage to enable charging of one or more of the rechargeable batteries and switch means to enable a selected battery of the plurality of rechargeable batteries to be connected to an output circuit to enable the selected battery to be discharged through the output circuit.

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